Niraj Thapa

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Summary

Passionate and self-driven IT student specializing in **cloud systems, DevOps, and cybersecurity**. Experienced in deploying secure infrastructures using **Docker, Kubernetes, Azure, AWS**, and **Nextcloud**, along with configuring **VPNs, SIEM, and network systems**. Known for strong problem-solving skills, attention to detail, and the ability to bridge customer needs with reliable technical solutions.

Education

Global College of Management   July 2019 – June 2021
Commerce with Applied Computer Studies   Higher Secondary
3.33

Relevant Coursework: Economics, Business Mathematics, Accounting, Computer Science

Seneca Polytechnic   January 2023 - April 2024
Informatics and Security   Bachelor
🔗 https://senecapolytechnic.ca

Transferred

Seneca Polytechnic   September 2024 - December 2025
Computer System Technician   Diploma
🔗 https://senecapolytechnic.ca

Experience

Pashupati Mobile & Repair Center   June 2022 - November 2022
Sales Associate   Gaushala, Kathmandu

- Delivered exceptional customer service by actively engaging with clients to identify their specific needs, resulting in increased customer satisfaction and loyalty.
- Successfully handled customer complaints, ensuring high levels of satisfaction and return business.
- Trained new staff on store policies and accounting procedures to improve accuracy and efficiency.

Kajun Chicken & Seafoods   April 2023 – August 2023
Cashier & Front Desk Assistant   7077 Bathurst St Unit #6, Thornhill

- Delivered a welcoming and positive first impression to all customers, ensuring a high level of satisfaction.
- Managed cash register operations, processed payments accurately, and balanced daily transactions with zero discrepancies.
- Prepared and reviewed daily financial summaries to support operational transparency and accountability.
- Onboarded and evaluated new staff, enhancing training effectiveness and overall team performance.
- Maintained cleanliness and organization of the front counter to meet health and safety standards.
- Collaborated with kitchen and delivery staff to ensure timely and accurate order fulfillment.

Scotiabank   March 2025 - Present
Customer Service Associate   North York, ON

- Serve as the primary point of contact for clients, providing outstanding customer service and personalized banking assistance in a high-traffic financial environment.
- Perform day-to-day banking transactions with accuracy, efficiency, and professionalism.
- Engage customers in meaningful conversations to understand their financial needs and provide tailored solutions.
- Promote digital banking tools and assist clients in using mobile and self-service platforms, improving overall digital engagement.
- Identify simple sales opportunities and contribute to the branch's performance targets by recommending appropriate banking products.
- Foster long-term relationships with customers through trust, communication, and proactive service.
- Demonstrate strong teamwork and adaptability while working in a fast-paced, goal-oriented setting.

Daramax Construction Services   June 2025- July 2025
Full-Stack Web Developer & IT Administrator
🔗 https://daramaxservices.ca

- Designed and developed the official Daramax Construction Services website from scratch.
- Set up and configured a custom email server supporting **SMTP, IMAP, and POP** protocols.
- Created the company's logo and branding materials for professional identity.
- Deployed and hosted the website on a secure and reliable web server.
- Implemented **SSL and TLS certificates** to ensure encrypted and secure connections.
- Strengthened website and email server security through configuration hardening and HTTPS enforcement.

Janta ko Nimti   September 2025- September 2025
Volunteer Web Developer & IT Support
🔗 https://jantakonimti.com

- Designed and developed the official website for **Janta ko Nimti**, a non-profit organization.
- Set up and configured a secure email server supporting **SMTP, IMAP, and POP** protocols.
- Created the organization's logo and visual branding assets.
- Deployed and hosted the website with **SSL and TLS encryption** to ensure data security.
- Implemented best practices for web and server security, including HTTPS enforcement.
- Contributed services voluntarily and donated technical resources to support the organization's mission of helping people.

Personal Portfolio
Web Developer & System Administrator
🔗 https://niraj.info

- Built and manage a personal website to showcase my resume, portfolio, and professional growth.
- Deployed a private mail server (SMTP, IMAP, POP) for personal and project communications.
- Integrated SSL/TLS certificates and backend monitoring for secure and stable performance.
- Continuously experiment with new technologies in web design, automation, and cybersecurity.

Cipherpit IT Solutions
Founder & Developer
🔗 https://cipherpit.com

- Currently developing **Cipherpit.com**, a startup project focused on delivering innovative IT and cybersecurity solutions.
- Designing and building a scalable website architecture and backend infrastructure.
- Setting up a secure email and authentication system with **SMTP, IMAP, and POP** integration.
- Implementing **SSL/TLS encryption**, firewalls, and access controls to ensure data integrity.
- Leading branding, UI/UX design, and digital identity creation for the company.
- Exploring long-term deployment options using **Azure and AWS** for high availability and security.

Volunteering

Janta ko Nimti
🔗 https://jantakonimti.com

- Volunteered to design, develop, and maintain the official website for *Janta ko Nimti*, a non-profit organization.
- Configured and secured the organization's **email server** with **SMTP, IMAP, and POP** protocols.
- Implemented **SSL/TLS certificates**, HTTPS, and server hardening to protect sensitive data.
- Created the official **logo and digital branding** to strengthen the organization's outreach.
- **Donated personal funds and technical resources** to support humanitarian efforts and assist individuals in need.

Awards

President's Honour   Winter 2025
Seneca Polytechnic

Full-Stack Web Server Deployment (Local & Cloud)

- Deployed and secured Apache/Nginx-based web servers on virtual machines using **VirtualBox**, **VMware**, and cloud platforms.
- Configured **SSL/TLS encryption**, custom domains, and hosted multiple services in sandboxed environments.

Load Balancer & High Availability Setup

- Configured **Azure Load Balancer** and **Traffic Manager** for regional and global redundancy.
- Deployed failover mechanisms and DNS-based routing to ensure uptime and performance optimization.
- Built a simulated multi-server environment using **VMs on Linux and Windows** and on Cloud.
- Configured Nginx-based load balancers and tested failover in a virtualized lab.

Email Server & Webmail Configuration

- Built a custom mail server with **Postfix & Dovecot**, enabling **SMTP, IMAP, and POP** functionality.
- Integrated **Roundcube Webmail**, DNS (MX/SPF/DKIM) records, and enforced **TLS encryption** for secure communication.

Private Cloud Collaboration Suite (Nextcloud)

- Self-hosted Nextcloud instance on Apache with a MariaDB backend.
- Enabled secure access using HTTPS and managed file sync, storage, and database operations.

Virtualization & Lab Environments

- Designed and maintained **custom virtual labs** using **VMware Workstation and VirtualBox** on both Windows and Linux hosts.
- Deployed multiple VMs to simulate **enterprise networks**, security attacks, and disaster recovery scenarios.
- Used snapshots and network isolation for safe experimentation and rollback.

Personal VPN Server (WireGuard & IPsec)

- Deployed self-hosted **WireGuard and IPsec** VPN servers for secure remote access.
- Configured static routing, key-based authentication, and multi-client connections.

Cloud Infrastructure Automation (Terraform + GitHub Actions)

- Automated VM deployments on **Azure** using **Terraform Cloud** integrated with **GitHub Actions**.
- Deployed **Windows Server 2022** with nested virtualization for multi-VM project environments.

Cross-Cloud Networking & Management

- Configured and managed environments across **Azure, AWS, and Google Cloud** platforms.
- Implemented secure inter-network connectivity, IAM policies, and cost optimization practices.

Penetration Testing & Ethical Hacking Labs

- Targeted self-deployed services (web, email, Wi-Fi) on virtual machines to test for real-world vulnerabilities.
- Used tools like **Ettercap, Nmap, Wireshark**, and **Metasploit** in Kali Linux VM environments.
- Practiced exploitation, enumeration, and vulnerability analysis in controlled environments.
- Documented vulnerabilities and applied mitigation techniques (fail2ban, firewall rules).

Network Traffic & Packet Analysis

- Captured and analyzed packets using **Wireshark** and **tcpdump** for network diagnostics.
- Configured **Cisco & Aruba switches** for VLANs, trunking, and DHCP scope assignments.

SIEM & Threat Detection (OSSIM & ELK Stack)

- Deployed **OSSIM** for centralized log collection and intrusion detection.
- Integrated **Windows and Linux** devices to monitor threats and generate correlation alerts.

Local AI & WebUI Environment (Pinokio & Others)

- Deployed AI tools and WebUI frameworks on isolated VMs for safe experimentation.
- Configured networking and resource allocation for containerized and GPU-assisted workflows.

Containerization with Docker

- Designed and containerized multi-service applications using **Docker** and **Docker Compose**.
- Built and optimized custom **Dockerfiles** for web servers, databases, and backend APIs.
- Managed container networking, persistent storage volumes, and environment variables.
- Deployed containers on **Azure VM** and **local virtualized environments** for testing and CI/CD integration.
- Implemented image versioning, tagging, and pushed builds to **Docker Hub** for reuse.

Kubernetes Deployment & Cluster Management

- Deployed a **multi-node Kubernetes cluster** for orchestrating containerized microservices.
- Configured **Pods, Deployments, Services, and Ingress Controllers** for app scaling and load balancing.
- Implemented **ConfigMaps, Secrets, and Persistent Volumes** for secure configuration and data management.
- Used **kubectl** and **YAML manifests** for automated deployments and rolling updates.
- Monitored cluster health and scaling performance using **kubectl top**, **metrics-server**, and **dashboard tools**.

Enterprise Network Configuration (Cisco & Aruba Switches)

- Configured and managed **Cisco (2960)** and **Aruba (6300)** switches for enterprise-level networking labs.
- Created and tested **VLANs, trunk links, and inter-VLAN routing** for multi-subnet communication.
- Implemented **DHCP pools**, **static IP assignments**, and **SSH key-based management** for secure remote access.
- Troubleshot connectivity, spanning-tree issues, and routing errors using CLI and packet analyzers.
- Designed and documented switch topology to simulate real-world corporate networking environments.

AI & Machine Learning Environment Deployment

- Built and deployed local **AI/ML inference environments** using **Docker**, **Pinokio**, and **Ollama**.
- Integrated **LLaMA, Mistral, and other open-source models** into secure WebUI dashboards.
- Utilized **GPU acceleration** and **containerized setups** for efficient model performance.
- Experimented with **Azure Cognitive Services** for automation, voice recognition, and NLP tasks.

English
● ● ● ● ●

Nepali
● ● ● ● ●

Hindi
● ● ● ● ●

French
● ○ ○ ○ ○

Interests

Cybersecurity
Vulnerability Research, Ethical Hacking & Penetration Testing, Malware & Memory Forensics, Security Information & Event Management (SIEM)

Cloud Technologies
Automation, Infrastructure as Code (Terraform), Cloud Automation & Scalability, Serverless & Multi-Region Deployments, Microsoft Azure, AWS & Google Cloud

DevOps & Containers
Docker & Kubernetes, CI/CD Pipelines (GitHub Actions), Container Security & Orchestration

Networking
VLAN Design & Routing Protocols, VPN & Firewall Configuration, Network Traffic Analysis (Wireshark)

Digital Privacy & Encryption
VPNs, Cryptography, IDS/IPS, SSL/TLS Certificates & HTTPS Enforcement, Data Encryption Standards & Key Management, Secure Email & Identity Protection

Financial Technologies
Banking Security, Customer Engagement, Blockchain Fundamentals & Smart Contracts, FinTech Security & API Integration, Cloud-Based Financial Platforms

Travel & Culture
Cultural Immersion, Language Learning, Global Networking, Exploring Global Technology Trends

Logic & Strategy Games
Puzzle Solving, Cybersecurity Challenges, Simulation & Management Games

Skills

Cloud Platforms
● ● ● ● ○
Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP), Terraform Cloud & Infrastructure as Code (IaC)

Operating Systems & Server Management
● ● ● ● ○
Linux, Windows Server, Active Directory, Group Policy, VMware Workstation / VirtualBox, Shell scripting & system administration

Security & Monitoring
● ● ● ○ ○
SEIM, LDAP, Firewall Configuration, IDS/IPS Management, SSL/TLS Certificates & HTTPS Configuration, Network Security & Threat Detection

DevOps & Containerization
● ● ● ● ○
Docker, Git, GitHub Actions, CI/CD Pipelines, Kubernetes (Pods, Deployments, Ingress), YAML Configuration Management, Version Control (Git / GitHub)

Database Management
● ● ● ○ ○
MySQL, MariaDB, Microsoft SQL Server, Azure SQL, Basic PostgreSQL, SQLite (local apps & lab setups), Database Backup & Replication, Query Optimization & Access Control

Scripting & Automation
● ● ● ● ○
Bash, PowerShell, Cron Jobs, systemctl, SSH configuration, Python, Terraform for Cloud Infrastructure, API Integration & Automation, Configuration Management

Networking & Protocols
● ● ● ● ○
DNS, DHCP, VLANs, TCP/IP, NAT, OSPF, Routing & Switching, Wireshark, Access Control Lists, Cisco (2960) & Aruba (6300) Switch Configuration, WireGuard, IPsec VPN, SSH Tunneling, Load Balancing & Traffic Management, IPv4/IPv6 Network Design, Cisco IOS CLI Management, Subnetting & Static Routing

Web & Email Servers
● ● ● ● ○
Apache / Nginx Web Servers, Postfix / Dovecot Mail Servers, Roundcube Webmail Configuration, HTTPS Enforcement & SSL/TLS, Nextcloud Private Cloud Setup, DNS Records (A/ MX/ SPF/ DKIM & DMARC)

AI & Machine Learning
● ○ ○ ○ ○
TensorFlow / PyTorch (basic modeling), Scikit-learn / Pandas / NumPy, Azure Cognitive Services (AI & NLP), Local AI Environments (Pinokio/ Ollama & WebUI), GPU Acceleration (NVIDIA RTX 3060)

Other Tools & Skills
● ● ● ● ●
Microsoft Office Suite, Time Management, Problem Solving, Customer Service, Git / GitHub Version Control, Visual Studio Code / Jupyter Notebooks, Project Documentation (Markdown/ Notion), Troubleshooting & Technical Support

Certifications

Introduction to Cybersecurity   **November 2024**
Cisco

Ethical Hacking Series   **January – April 2025**
LinkedIn Learning

- Footprinting and Reconnaissance
- Scanning Networks
- Enumeration
- System Hacking
- Social Engineering
- Vulnerability Analysis
- Malware Analysis
- Denial of Service
- Wireless Networks
- Session Hijacking
- Web & Application Hacking
- Mobile & IoT Device Hacking
- Evading IDS, Firewalls, and Honeypots
- Cryptography

IT Security Foundations: Core Concepts   **January 2023**
LinkedIn Learning

Business Analytics: Marketing Data   **January 2023**
LinkedIn Learning

Configure and Manage Automation using Microsoft Defender for Endpoint   **November 2024**
Microsoft

AWS Academy Graduate: AWS Cloud Foundations   **March 2025**
Amazon Web Services (AWS)

Ethical Hacker   **September 2025**
Cisco
🔗 https://www.credly.com/badges/7c127681-178a-4ccf-9490-1161e919b525/linked_in_profile

Junior Cybersecurity Analyst Career Path   **September 2025**
Cisco
🔗 https://www.credly.com/badges/0bea95c4-2c3e-4ebb-b392-52adf6c94f27/linked_in_profile

References

References available upon request